

AMENDMENTS TO THE CLAIMS

1. (Canceled)

2. (Currently Amended) A swing device comprising:

a supporter;

a seat suspended on the supporter to swing in front and back directions;

a permanent magnet installed in the seat; and

an electromagnet installed to face the permanent magnet in a swing path to have the same polarity as that of the permanent magnet,

wherein the electromagnet is selectively driven when the permanent magnet approaches, generating a repulsive force for the permanent magnet, and

the electromagnet includes an iron core, a primary coil wound around the iron core, a power source for supplying electric current to the primary coil, and a switching unit disposed between the primary coil and the power source so as to selectively interrupt current supply from the power source to the primary coil.

3. (Currently Amended) ~~A~~ The swing device as claimed in claim 2, wherein the electromagnet further includes a secondary coil for generating induced current when the permanent magnet approaches so as to operate the switching unit, and

one end of the secondary coil diverges into two portions each connected with the primary coil and the switching unit, and the other end of the secondary coil is connected with the power source.

4. (Currently Amended) ~~A~~ The swing device as claimed in claim 3, wherein the switching unit is a transistor.

5. (Currently Amended) ~~A swing device as claimed in claim 1, A swing device comprising:~~

a supporter;

a seat suspended on the supporter to swing in front and back directions;

a permanent magnet installed in the seat; and

an electromagnet installed to face the permanent magnet in a swing path to have the same polarity as that of the permanent magnet.

wherein the electromagnet is selectively driven when the permanent magnet

approaches, generating a repulsive force for the permanent magnet, and

~~wherein~~ the permanent magnet is installed in a central position under the seat, and the electromagnet is installed directly under the permanent magnet to face the same with a certain distance.

6. (Currently amended) ~~A~~ The swing device as claimed in claim 5, wherein the permanent magnet and the electromagnet are spaced apart from ~~with~~ each other by a certain distance in the swing direction when the seat is positioned in a center position of a swing trajectory.